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APPLICATION NO). F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,059		01/28/2002	Silvia Allegro	34369	7343
116	7590	02/15/2005		EXAMINER	
	& GORD		ABEBE, DANIEL DEMELASH		
SUITE 1200				ART UNIT	PAPER NUMBER
CLEVELA	ND, OH	44114-3108	2655		

DATE MAILED: 02/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/059,059	ALLEGRO, SILVIA					
Office Action Summary	Examiner	Art Unit					
	Daniel D Abebe	2655					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
	Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	 .						
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,11,12 and 19-41</u> is/are rejected.							
7)⊠ Claim(s) <u>3-10 and 13-18</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	•	•					
9) The specification is objected to by the Examiner	r.						
10)☐ The drawing(s) filed on is/are: a)☐ acce							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		-(d) or (f).					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau							
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary (Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/25/02.	5) Notice of Informal Pa	atent Application (PTO-152)					

Application/Control Number: 10/059,059

Art Unit: 2655

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed on 11/25/02 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the documents submitted lack English translation. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 24 recites the limitation "the at least two processing stage" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 11, 12,19-41 are rejected under 35 U.S.C. 102(a) as being anticipated by Peter et al. (WO 01 76321).

As to claims 24-25, Peter et al. teach a device for classifying acoustic environment, comprising:

A feature extraction means; and

A classification means for classifying the environment based on the input signal (Fig.3).

With regards to claims 26-36, Peter et al. teach where the processing means are adapted to process the feature vectors in a first layer with a first set of HMM operating at a first time scale to determine a first classification, where the first classification is processed with a second set of HMM to generate a second classification output (Pg. 12, lines 23-32).

As to claims 37-38, Peter et al. teach a decision controller (Pg.12, lines 23-25).

As to claims 39-41, Peter et al. teach where the device for generating the class information of the environment is a hearing aid accessible by remote control (Pg.2, lines 1-4).

As to claims 1-2, Peter al. teach the method of classifying a acoustic environment using feature vectors extracted from an input signal and where the classifying means

are adapted to process the feature vectors in a first to determine a first classification, where the first classification is processed with a second set of HMM to generate a second classification output.

As to claims 11-12, post processing is common in signal processing and is inherent in peter, for ensuring the result.

As to claim 19, Peter al. teach where the classifier is HMM (Fig.3).

As to claims 21 and 23, the extracted feature in Peter al. represent auditory model.

As to claim 22, peter et al. teach where the hearing aid parameters are adjusted according to the result obtained by the classifier (abstract).

Allowable Subject Matter

Claims 3-10 and 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the claims are allowable, because, Peter et al. don't teach where a manner of processing in a processing stage is selected according to a class information obtained in another processing stage as recited in the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D Abebe whose telephone number is 703-308-5543. The examiner can normally be reached on monday-friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 703-305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Abebe Primary Examiner A.U. 2655

February 9, 2005